

Title (en)

ELECTRIC DEVICE COMPRISING PHASE CHANGE MATERIAL

Title (de)

ELEKTRISCHE EINRICHTUNG MIT EINEM PHASENÄNDERUNGSMATERIAL

Title (fr)

DISPOSITIF ELECTRIQUE CONTENANT UN MATERIAU A CHANGEMENT DE PHASE

Publication

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Application

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Abstract (en)

[origin: US2006163554A1] The electric device (1, 100) comprises a resistor (36, 250) comprising a phase change material which is able to be in a first phase and in a second phase. The resistor (36, 250) has an electrical resistance which has a first value when the phase change material is in the first phase and a second value when the phase change material is in the second phase. The resistor (36, 250) is electrically connected to a first conductor (3, 130 A, 130 B) and a second conductor (4, 270), which are able to conduct a current for heating of the phase change material to enable a transition from the first phase to the second phase. The electric device (1, 100) further comprises a layer (20, 39, 126, 140, 260) of a dielectric material for reducing a heat flow to parts of the body (2, 101) free of the resistor (36, 250) during the heating, which dielectric material according to the invention comprises a porous material with pores having a size between 0.5 and 50 nm.

IPC 8 full level

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